

## **ABSTRACT**

### **Objective**

To study the association between lipid profile and liver function test in type 2 diabetics.

### **Methods**

The study population consisted of 100 type 2 diabetic patients attending Diabetics clinic, Institute of non communicable diseases, Government Royapettah hospital, Government Kilpauk medical college, Chenna.FBS, PPBS, LFT, FLP and USG abdomen for detecting fatty liver were done for all participants. ALT /AST > 30 and TC>200 ,TGL>150 were taken as elevated and their association with fatty liver was studied. Alcoholics with fatty liver were not included.

### **Results**

The 100 participants in the study included 49 females and 51 males. Mean age was 52.6 +/- 10.426. 7 out of the 100 were alcoholics. 73 of the total had raised ALT/AST. 47 participants had raised TC and TGL. Both LFT and FLP were raised in 46 individuals. Out of the 71 participants with elevated LFT (alcoholics excluded) 62 had fatty liver.

43 of the 44 participants with elevated FLP had fatty liver..43 participants had all the 3 findings-elevated FLP,LFT and fatty liver in USG.Statistical analysis showed there is significant association between FLP and LFT and FLP,LFT and fatty liver( $p < 0.01$ ).

## **Conclusion**

There is significant association between FLP and LFT and FLP in type 2 diabetics.

## **Keywords**

Diabetes,Fasting lipid profile,Liver function test,Non alcoholic fatty liver disease,Ultrasonography

## **Abbreviations**

DM -Diabetes Mellitus,FLP -Fasting Lipid Profile,LFT-Liver Function Test,TC-Total Cholesterol,TGL –Triglycerides,AST-Aspartate Amino Transferase ALT-Alanine Amino Transferase,NAFLD-Non Alcoholic Fatty Liver Disease